

*AMENDMENTS TO THE SPECIFICATION*

Replace the paragraph beginning at page 3, line 24 with:

In order to solve the above problem, the present invention provides a detecting machine for scanning both sides of a sheet-like object to optically detect compositions of the both sides of the object, the detecting machine comprising: a first-side light emitting device and a first-side light ~~receiving~~ detecting device disposed ~~closely~~ close to each other on a first side of the object; a second-side light emitting device and a second-side light ~~receiving~~ detecting device disposed ~~closely~~ close to each other on a second side of the object; and an emission controller for controlling the first-side light emitting device and the second-side light emitting device to emit light at ~~their~~ respective emission ~~timings~~ times, different from each other, wherein the first-side light emitting device is disposed at ~~an~~ a position opposite ~~position to~~ the second-side light ~~receiving~~ detecting device with the object in between, ~~wherein~~ the first-side light receiving device is disposed at ~~an~~ a position opposite ~~position to~~ the second-side light emitting device with the object in between, and ~~wherein~~ in composite detection ~~is carried out to make~~ the first-side light ~~receiving~~ detecting device ~~detect~~ detects first-side reflected light emitted from the first-side light emitting device and reflected ~~on~~ from the first side of the object and ~~to make~~ the second-side light ~~receiving~~ detecting device ~~detect~~ detects transmitted light emitted from the first-side light emitting device and transmitted by the object and second-side reflected light emitted from the second-side light emitting device and reflected ~~on~~ from the second side of the object, ~~so as to~~ detect the compositions of ~~the~~ both sides of the object.

Replace the paragraph beginning at page 13, line 10 with:

Part of the light emitted from the first-side light emitting device 8 is reflected ~~on~~ from the first side 6a of the bill 4 and is detected as first-side reflected light La1 in the present invention by the first-side light receiving device 10. Another part of the

light is transmitted by the bill 4 and is detected as transmitted light La2 in the present invention by the second-side light receiving device 10'.

Replace the paragraph beginning at page 13, line 17 with:

Furthermore, part of the light emitted from the second-side light emitting device 8' is reflected ~~on~~ from the second side 6b of the bill 4 and is detected as second-side reflected light Lb in the present invention by the second-side light receiving device 10'. Another part of the light Lc (indicated by a dotted line in Fig. 1C) is transmitted by the bill 4 and detected by the first-side light receiving device 10.